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0320 #4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001

TIME: 13:22:58

Input Set : N:\paola\i606977.raw

Output Set: N:\CRF3\04032001\I606977.raw

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2 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
3   Plants
4 <130> FILE REFERENCE: 38-21(15877)B
5 <140> CURRENT APPLICATION NUMBER: US/09/606,977
6 <141> CURRENT FILING DATE: 2000-06-28
7 <160> NUMBER OF SEQ ID NOS: 82359
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10 <211> LENGTH: 280
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12 <213> ORGANISM: Zea mays
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18   ccgcttaacc gagcgtgagt tgccttgccg ggaaggtgac gagtgaggta tctgtattcc   240
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22 <211> LENGTH: 360
23 <212> TYPE: DNA
24 <213> ORGANISM: Zea mays
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27   attgaaagac cccgctcgtc agtgaatgtt gctattctag caaagggaag gtgttttttc   120
28   ggaccttcgg cgtaaagcct tcgtccatgt cgcaatctaa atttattatt ttaaaataaa   180
29   ttaattattg gaggggctac tgggtggggc cttctgctta caaaggtoct caaaaacagg   240
30   atttaacaat atttctggag tataatgtgt gagcaggat cttcggactc aagtcgggat   300
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34 <211> LENGTH: 433
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36 <213> ORGANISM: Zea mays
37 <223> OTHER INFORMATION: unsure at all n locations
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40   gagttcaccg gatgtgggcy ccaatgttgg ggacttggtc tcaaagtctt cgaattaaga   120
41   acaagacaac acaaaaatgt taagtataaa ttcccttcgt ccgctgaagc attatctccc   180
42   caaggattta atgagcttcg gacgaaggcc ataaataaag tatcacgaag gtttcacctt   240
43   cgtgatcata tttttaagac aacaatgaga aatgaaatat aaagcacaaa atatattcac   300
44   atattctggt atatgaatat acaagtattg aaacataaca tttacgaaca tttataacct   360
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46   agtaccggga tac   433
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50 <212> TYPE: DNA
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55   gccagggtga ccggaagaaa gtttattaag aataacttac tatcttctat ataactgata  180
56   ttatagcata catgagcatc atgttatgta tggctgttaa aaacaagaaa agaattgtca  240
57   aaaaacgact gaccaccgcc agactcacct gcggaatgtt tatttgtttt gggacaatcc  300
58   aatcctacaa ggcatacctt cttggtttaa acttatactt gtgagcttag gaagagtgg   359
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63 <213> ORGANISM: Zea mays
64 <223> OTHER INFORMATION: unsure at all n locations
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67   aggaaagtgt gcgtgtcggc atcaatgctt cttcaataag ctagctgcca agcgaaacct  120
W--> 68   agaagcctga agatgattcn ttgagtagcc agaatcagcg ttggcaatca gcaaccagat  180
69   gctcctcaaa gaccagattt tgttgaagtt ccatctcctc gaagagtgc aaagtgaaga  240
70   tatgtagctg aagtaaagct ataccataa cccttctaag acgaatctcg aggacgagat  300
71   ttctttaagt gggtaggatt gtagcatccc acaaatcaaa ttctgaattt tctcaact   358
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81   cgcaaatcaa gagaaaaggt atgtttctaa gtcctagtac attggttttg tgtactaata  180
82   tacttgtcta agtgttggaa acagaaagta taagaaaaga gaagaggtgc aaaaagtctg  240
83   gtctggagca ccggactgtc cgggtgtgca ccggacagtg tccggtgcgc caggctgact  300
84   cggcgcgaac tgcccgctct caggaatatg ccgacggcgt acggctaaaa ttcaccggac  360
85   tattccgtgt gcaccggact gtccggtgag tcaacggtcg actgagccaa cggtcggcag  420
86   cggaatctgc gcgcgacacg tggctggcc   449
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89 <211> LENGTH: 344
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91 <213> ORGANISM: Zea mays
92 <400> SEQUENCE: 7
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94   ttgtttctca agttgggcat aattgctttt tagatatgac taccttgaaa agacttgctt  120
95   ttatgaacaa aaatatgtaa attttgtaat cgggaggtaa gtacaaataa ttagtcactt  180
96   taaaactgca cgatgtatct acaggtacaa acctaatcaa aatgcttcta aacagcgtac  240
97   ggagtatcta tagatatgta cccactaatt agacagtgtt aggtacattt gtaaaaaaat  300
98   atatgaattt ctagggaatt aatgccttct caaatatatg aaaa   344
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102 <212> TYPE: DNA
103 <213> ORGANISM: Zea mays
104 <400> SEQUENCE: 8
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105      ccagtaggct actataacag tgatatcact ttatcaatta cagatagtga cctcacactc   60
106      ttgaggatg attcactttt taagaagaac actatatcta aagaaaggta cccattttta   120
107      taatgcaacc gagcagttta ttaagattac aaaaaattga ggagggggga aatacaattt   180
108      ccacct                                     186
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111 <211> LENGTH: 404
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113 <213> ORGANISM: Zea mays
114 <223> OTHER INFORMATION: unsure at all n locations
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117      acccaagcct aaatttgctt tgcaggttta tgcattccgg ggctcaagtt ggattatcga   120
118      cagcggatgc acaaacata tgacggggga gaagaagatg ttcacctcct acgtcaagaa   180
119      taaggattcc caagattcaa tcatattcgg ggaagggaac caaagcaagg tgaaagggtt   240
120      gggcaagatt gcaatatcaat atgagcactc tatctctaag gtgttttttag ttgagtctct   300
121      tggatataat ttactatctg tcagtcaatt atgtaatatg ggatattatt tgctatttac   360
122      aaatgtaaat gtgtctgtct ttataagaag tgatggttca ctat                                     404
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125 <211> LENGTH: 343
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128 <223> OTHER INFORMATION: unsure at all n locations
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132      ttccctgaca tcccgatgaag ctctctcacc cgttcaattg aactatcgcg ccgtgagtag   180
133      gccggactcc tcgccgcgca cgagcatctc cgcctgcgca cgtggaccga ccgactccaa   240
W--> 134      ccatccccga cggcgaccgg cacatcggtt tgatcctcga gaccttccct acgtnctcga   300
135      ccacctcacc ggagcaatct cgccggcggt aagccctccc gcc                                     343
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139 <212> TYPE: DNA
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141 <223> OTHER INFORMATION: unsure at all n locations
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145      caaggctctc agcaccgaac aaacagtcac ccgcactcac tgagcgggtg gccacagggt   180
146      tcgagaaggt gaatcgctgg cgcgcgcgta attggtgcaa gatggggcgc gcgcgacgat   240
147      tattttaatc gtttctcgcc aacgagctca gggaagggtg tttttggatc ttcggcgctc   300
148      cgaagcctag aagacttttt cacggatcaa gctcgttacg aaaaacgato tatcaccgcg   360
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160      cataggagga agtaagtatg gtttagttat tgttgatgac ttttcccgct tcacttgggt 240
161      gttctttttg caggaaaaat ccgaaaccca agggactctc aaacgcttcc tcaggagagc 300
162      tcaaaatgag tttgagctca aagtgaaaaa gataagaagc gacaacgggt ccgagttcaa 360
163      gaaccttcaa gtggaggagt tccttgaaga ggaagggatc aagcacgagt tctccgtccc 420
164      tacacaccac agcaaaatgg tgtggtga 447
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167 <211> LENGTH: 341
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169 <213> ORGANISM: Zea mays
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173      gtgagggagg cgaaaccgaa tgagcggaga ctgttcctat ctccgaagcg atgcaacgat 180
174      ccggactggt gacctctgaa ggaatccgta ctgccgagac agagcagact gttgccgaga 240
175      cagaataagt tgcgcggaa gcggaagaag gaaatattga ggaagctgat tccgatgatg 300
176      attaccatat tgccgtgcca agcaagccca gccacttggga c 341
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179 <211> LENGTH: 418
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185      atattttact gaaaaatcga atggccatgt tcttaatcat tctacttatg ataaagaatt 180
186      atatgctctc atacgatctt tgcaaacatg gaaacattat ttgcggtcta acgaatctgt 240
187      tattcatttt gatcatgagt cacttaagca tcttcgtagt caaacaatc tgaaccgtag 300
188      acatgccaaag tgggtagaat ttcttgaaac ttctcttac atcattaaat ataaaaaggg 360
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198      ttatagcaac caaaattgtc gtgcaatcca tcctttctag ccttcgtctg ataatgcagc 180
199      tcgtgaaccc ggcaaaagct gtccgcaaat ggctccactg cttggcttcg gagtgccagc 240
200      atataaacac taagcctaac gatagcgta ggggtcagct ggtgaaaata gataccgaac 300
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213      caaattcaag aaatatTTta agaagccctg ccaagagtgg ctggatacag ttgaggtgat 300
214      gtgtaatgaa attcttggaa attattcgaa aaaagaagat caactgatga cagcagcctt 360
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232 <213> ORGANISM: Zea mays
233 <223> OTHER INFORMATION: unsure at all n locations
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238      acgcacgaag ttttcctgc gtcggcctcc tgcgcgcaa gatcttcggt gccgcgcgc 240
W--> 239      acgaatncat gctgcgcgcg cgcgccagct cactcccta gctcgtctt tgtttctctg 300
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244 <211> LENGTH: 373
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250      accaacgact gcattgtagg ggtattcat gtcaacaata tcaaacacaa cctgttaact 180
251      tcttgatttg tggacaaatc cgaaggttac tgacatcgcg atcttgccaa gagatacaat 240
252      ctgcctttct ccaaaaccac aaagagggtg ttagcatca tggatcttat actatagctc 300
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260 <223> OTHER INFORMATION: unsure at all n locations
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262      cacaactatt gcgcattagc ctatgtcatt ggtctttaat gctaccctac atggcatggt 60
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Output Set: N:\CRF3\04032001\I606977.raw

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L:282 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:293 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22
L:293 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:293 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:322 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24
L:322 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
L:322 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:338 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25
L:338 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001

TIME: 13:22:59

Input Set : N:\paola\i606977.raw

Output Set: N:\CRF3\04032001\I606977.raw

L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

L:807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

STATISTICS SUMMARY

PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001

TIME: 13:23:01

Input Set : N:\paola\i606977.raw

Output Set: N:\CRF3\04032001\I606977.raw

Application Serial Number: US/09/606,977

Alpha or Numeric: Numeric

Application Class:

Application File Date: 06-28-2000

Art Unit:

Software Application:

Total Number of Sequences: 82359

Total Nucleotides: 31151446

Total Amino Acids: 0

Number of Errors: 0

Number of Warnings: 328604

Number of Corrections: 0

MESSAGE SUMMARY

258 W:246453 (Mandatory Feature missing)

341 W: 82151 ((46) "n" or "Xaa" used)